

WHAT IS CLAIMED IS:

1. A method for enhancing contrast in a digital projector, comprising:
 2. positioning a first optical component and a second optical component
 3. along a light path, said first optical component and said second optical component
 4. being separated by a gap; and
 5. sealing a perimeter of said gap with a sealant.
1. 2. The method of claim 1, further comprising:
 2. evacuating said gap to provide substantially a vacuum in said gap.
1. 3. The method of claim 2, wherein said first optical component is a digital micro-mirror device cover plate and said second optical component is a total internal reflection prism.
1. 4. The method of claim 1, wherein said first optical component is a digital micro-mirror device cover plate and said second optical component is a total internal reflection prism.
1. 5. The method of claim 1, wherein said sealant is positioned substantially along a perimeter of at least one of said first and second optical components.
1. 6. The method of claim 1, wherein said gap is filled with a fluid.
1. 7. The method of claim 6, wherein said fluid has a refractive index substantially similar to a refractive index of at least one of said first and second optical components.
1. 8. The method of claim 6, wherein said fluid is a liquid.
1. 9. The method of claim 6, wherein said fluid is a gel.
1. 10. The method of claim 1, wherein said gap is filled with an adhesive.

1 11. The method of claim 10, wherein said adhesive has a refractive index
2 matching at least one of said first and second optical components.

1 12. A system for enhancing contrast in a digital projector, comprising:
2 a first optical component and a second optical component positioned
3 along a light path and being separated by a gap; and
4 a sealant adapted to seal said gap substantially along a perimeter of
5 said gap.

1 13. The system of claim 12, wherein said gap is evacuated to provide
2 substantially a vacuum in said gap.

1 14. The system of claim 13, wherein said first optical component is a
2 digital micro-mirror device cover plate and said second optical component is a total
3 internal reflection prism.

1 15. The system of claim 12, wherein said first optical component is a
2 digital micro-mirror device cover plate and said second optical component is a total
3 internal reflection prism.

1 16. The system of claim 12, wherein said sealant is positioned along a
2 perimeter of at least one of said first and second optical components.

1 17. The system of claim 12, wherein said gap is filled with a fluid.

1 18. The system of claim 17, wherein said fluid has a refractive index
2 substantially similar to a refractive index of at least one of said first and second
3 optical components.

1 19. The system of claim 17, wherein said fluid is a liquid.

1 20. The system of claim 17, wherein said fluid is a gel.

1 21. The system of claim 12, wherein said gap is filled with an adhesive.

1 22. The system of claim 21, wherein said adhesive has a refractive index
2 matching at least one of said first and second optical components.

1 23. A system for enhancing contrast in a digital projector, comprising:
2 a first optical component and a second optical component positioned
3 along a light path and being separated by a gap; and
4 means for sealing said gap substantially along a perimeter of said gap.

1 24. The system of claim 23, wherein said gap is evacuated to provide
2 substantially a vacuum in said gap.

1 25. A system for enhancing contrast in a digital projector, comprising:
2 a first optical component and a second optical component positioned
3 along a light path and being separated by a gap; and
4 means for restricting airflow through said gap.

1 26. The system of claim 25, wherein said gap is evacuated to provide
2 substantially a vacuum in said gap.

1 27. A digital projector, comprising:
2 at least two optical components positioned along a light path;
3 a gap formed between two of said optical components; and
4 a sealant adapted to seal said gap substantially along a perimeter of
5 said gap.

1 28. The system of claim 27, wherein said gap is evacuated to provide
2 substantially a vacuum in said gap.